

## ABSTRACT OF THE DISCLOSURE

It is an object of the present invention to provide an audio signal encoding method, an audio signal decoding method, a transmitter, a receiver, and a wireless microphone system which can compress an audio signal at a relatively high compression ratio at a relatively high quality with a relatively low delay. The compression encoder **4** of the transmitter includes an audio signal dividing filter bank **4a** for dividing the audio signal into four sub-band signals, sampling each of the sub-band signals at a down-sampling rate depending on the number of the sub-band signals, and producing the sub-band signals sampled at the down-sampling rate, LD-CELP encoders **20a** to **20d** for encoding the sub-band signals on the basis of LD-CELP algorithm, and a multiplexer **4c** for producing a multiplexed data stream with the encoded sub-band signals.